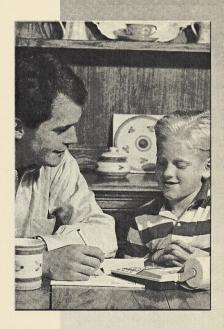




Module 3

# Having Fun Adding and Subtracting

Home Instructor's Guide: Day 10–18 and Assignment Booklet 3B









Grade Two Mathematics
Module 3: Having Fun Adding and Subtracting
Home Instructor's Guide: Days 10–18 and Assignment Booklet 3B
Learning Technologies Branch
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This document is intended for		
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Teachers	1	
Administrators		
Home Instructors	1	
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# **Daily Summary**

Day 10

# Day 10: Lesson 1

#### **Answers**

- 1. a. 8 f. 10 k. 10 p. 7 q. 8 1. 18 b. 0 q. 20 c. 3 h. 5 m. 6 r. 16 d. 7 i. 8 n. 1 s. 9 e. 2 i. 9 0. 14 t. 12
- 2. a. 18-9=9Jasper saved 9 cents.
  - b. 8+8=16They have 16 marbles in all.
  - c. 14-7=7Jasper now has seven hockey cards.

# Day 10: Lesson 2

Show the student how to use a number line and a metre stick to help with addition and subtraction. For example, if the problem is 5+2, point to 5 on the metre stick, count on 2 and you arrive at 7. So, 5+2=7. This same principle applies to the number line.

#### Answers

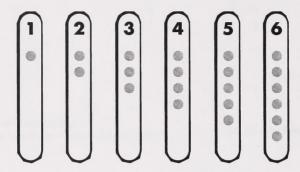
- 1. 7+5=12
- 2. 12+6=18
- 3. a. 19 d. 20 b. 17 e. 19 c. 15 f. 16

4. a. 6 d. 3 b. 7 e. 19

c. 2 f. 17

## Day 10: Lesson 3

This lesson demonstrates how problems can be solved in a variety of ways. Have the student put dots on wooden craft sticks or tongue depressors with a felt pen. You will need 12 sticks. Have the student print the numerals 1 through 6 on two sets of sticks. Under the 1, the student will mark one dot, under the 2, two dots, and so on, up to six on both sides of sticks.



#### **Answers**

- 1. The student should draw sticks with either of the following number of dots:
  - 2 and 1
  - 3
- 2. a. 6 c. 2 and 1 b. 2 d. 4

# Day 10: Lesson 4

This lesson teaches how to add using ten, that is, increasing one addend while decreasing the other to make one of the addends ten for easier addition. Ensure the student comprehends this concept before continuing.

#### **Answers**

1. 
$$9+7=16$$

$$10 + 6$$

3. 
$$5+9=14$$

$$10 + 4$$

5. 
$$9+2=11$$

7. 
$$9+8=17$$

$$10 + 7$$

2. 
$$8+3=11$$

$$10 + 1$$

4. 
$$6+9=15$$

$$10 + 5$$

o. 14

p. 7

q. 20

r. 16

s. 9

t. 12

6. 
$$8+7=15$$

$$10 + 5$$

8. 
$$8+5=13$$

$$10 + 3$$

There are extension activities for Day 10. It is strongly recommended that the student work on these activities, as they are a review of strategies to use for adding.

# Day 11

# Day 11: Lesson 1

#### Answers

h. 5

i. 16

2. a. 
$$9+6=15$$

Su Ling climbed 15 steps in all.

b. 
$$14-6=8$$

Marnie has 8 more dollars than her brother.

c. 
$$7+9=16$$

Mabel now has 16 pencils.

# Day 11: Lesson 2

#### **Answers**

1. a. 
$$13-4=9$$

b. 
$$19-12=7$$

2. a. 9

d. 13

b. 8

e. 11

c. 17

f. 3

3. a. 6

d. 3

b. 7

e. 7

c. 2

f. 11

# Day 11: Lesson 3

#### **Answers**

1. 12

2. 6

3. 16

4. 9

## Day 11: Lesson 4

The student learns to subtract by counting on.

For example, 8-5=

The student will add on from the smaller digit, or 5. So, 5, . . . 6, 7, 8. Three were added on, so 8-5=3. This is a valuable strategy to know when one of the addends is missing,

such as 5+ = 8, and in "How much more would I need" problems.

#### **Answers**

- 1. 1
- 4. 35. 1
- 2. 2
   3. 3

There are extension activities for Day 11. It is strongly recommended that the student work on these activities, as they are a review of strategies to use for subtracting.

Have the student do the assignment for Day 11 after completing the day's lessons.

# Day 12

## Day 12: Lesson 1

#### **Answers**

- 1. a. 8 h. 7 o. 16 b. 15 i. 16 p. 7 j. 2 c. 1 q. 15 d. 7 k. 14 r. 16 s. 19 e. 16 1. 1 t. 12 f. 18 m. 6 g. 8 n. 1
- 2. a. 17-14=3 Ashley borrowed three more books than Shawn.
  - b. 16-9=7Seven ponies did not have riders.
  - c. 18-7=11Eleven cars left the parking lot.

# Day 12: Lesson 2

This lesson is a quick review of addition and subtraction facts and the strategies used to find the answers.

#### **Answers**

1. a. 11 e. 3 i. 9 b. 5 f. 14 i. 2 c. 5 g. 2 k. 3 d. 10 h. 8 1. 6 2. a. 16 e. 20 i. 19 b. 19 f. 13 i. 15 c. 19 g. 17 k. 20 d. 19 h. 12 l. 17

- 3. a. 16
   e. 9
   i. 14

   b. 15
   f. 13
   j. 14

   c. 6
   g. 2
   k. 8

   d. 10
   h. 2
   l. 8
- 4. The student should have circled the following:
  - 16 8 • 17 - 9 • 5 + 3 • 20 - 12 • 8 - 0
- 5. The student should have circled the following:
  - 10+3
    6+7
    14-1
    20-7
    18-5
    13+0
- 6. The student should have circled the following:
  - 9+7 • 8+8 • 10+6
- 7. The student should have circled the following:
  - 10-5 • 5-0 • 3+2

# Day 12: Lesson 3

The student is introduced to two-digit addition. The student will need base ten rods and cubes and the Place-Value Mat in the Appendix. Have these ready before the lesson begins.

Explain to the student that a digit is a number from one to nine. A two-digit number has two numbers in it, for example, 23.

#### **Answers**

- 1. 67
- 2. 79
- 3. 39
- 4. 59

# Day 12: Lesson 4

#### **Answers**

- 1. a. 36 c. 58 b. 88 d. 67
- a. 26
   b. 79
- 3. a. 28 e. 99 i. 19 m. 29 b. 68 f. 75 i. 99 n. 84 g. 39 c. 49 k. 17 o. 39 d. 57 h. 37 1. 69 p. 48

# Day 13

The student is introduced to two-digit subtraction in today's lessons.

# Day 13: Lesson 1

#### **Answers**

- d. 15 s. 38 1. a. 8 g. 6 j. 1 m. 16 p. 38 h. 7 k. 7 e. 99 b. 19 n. 19 q. 2 t. 18 c. 7 f. 1 i. 49 1. 79 o. 16 r. 16
- 2. a. 70+6=76 Elena will have 76 stickers in all.
  - b. 70+9=79Laura has 79 stickers in all.
  - c. 36+3=39Jasper has 39 cans of food for the food bank.

#### Day 13: Lesson 2

#### **Answers**

- 1.62
- 2. 77
- 3. 32
- 4. 53

#### Day 13: Lesson 3

#### **Answers**

- 1. a. 71 c. 64 b. 13 d. 40
- 2. a. 82 b. 52
- 3. a. 30 e. 87 i. 15 m. 32 b. 94 f. 51 i. 93 n. 41 g. 45 c. 83 k. 12 o. 62 d. 71 h. 45 1. 63 p. 53

Have the student do the assignment for Day 13 after completing the day's lessons.

# Day 14

The focus in Days 12 and 13 was on adding two-digit numbers and one-digit numbers and subtracting one-digit numbers from two-digit numbers. Today, the focus is on adding two-digit numbers to two-digit numbers and on subtracting two-digit numbers from two-digit numbers.

# Day 14: Lesson 1

#### **Answers**

1. a. 9 e. 13 i. 16 m. 7 q. 69 f. 71 b. 33 i. 59 n. 16 r. 15 q. 7 c. 39 k. 72 o. 6 s. 68 d. 2 h. 81 l. 15 p. 10 t. 38

- 2. a. 89-7=82 Elena has 82 cents left.
  - b. 65-4=61Jasper has 61 marbles left.
  - c. 37-5=32Elena sold 32 more chocolate bars than her friend.

# Day 14: Lesson 2

#### **Answers**

- 1. a. 89 c. 88
  - b. 86 d. 79
- a. 77
   b. 79
- 3. a. 97 b. 73

# Day 14: Lesson 3

#### **Answers**

- 1. a. 13 c. 13 b. 12 d. 22
- 2. a. 30 c. 38 b. 51
- 3. a. 22 b. 1
- 4. a. 89
   d. 89
   g. 96
   j. 69

   b. 95
   e. 43
   h. 77
   k. 99

   c. 79
   f. 87
   i. 98
   l. 66
- 5. a. 50 d. 33 g. 78 j. 15 b. 43 e. 11 h. 11 k. 20 c. 15 f. 33 i. 23 l. 12

There are extension activities for Day 14. These activities are suitable for Days 14 to 18.

Have the student do the assignment for Day 14 after completing the day's lessons.

## Day 15

Today the student learns how to add with regrouping.

#### Day 15: Lesson 1

#### **Answers**

- 1. a. 9 d. 11 m. 2 p. 12 s. 21 g. 87 i. 14 b. 10 e. 13 h. 8 k. 88 n. 10 q. 9 t. 79 f. 12 1. 26 o. 13 c. 11 i. 16 r. 11
- 2. a. 87-46=41Jasper has 41 more gum balls than Mark.
  - b. 45-24=21Elena had 21 minutes left to play outside.
  - c. 52 + 43 = 95There were 95 cards in all.

## Day 15: Lesson 3

Help the student with the regrouping exercises. He or she should do the two activities just as shown in the example with the two buses. The student uses rods and cubes to regroup. Ensure the student understands how to regroup before continuing.

#### **Answers**

1. a. 2 tens 19 ones regroup 3 tens 9 ones
b. 8 tens 15 ones regroup 9 tens 5 ones
c. 6 tens 11 ones regroup 7 tens 1 one
d. 5 tens 14 ones regroup 6 tens 4 ones

- 2. There were 62 children on the field trip.
- 3. 37 + 56 = 93

There were 93 cars in the parking lot in all.

4. a. 90

e. 64

b. 71

f. 94

c. 53

q. 90

- d. 71
- 5. a. 72
  - b. 83
  - c. 65

# Day 16

Today the student learns to trade a ten for ones when regrouping for subtraction. Ensure the student understands trading very well before proceeding.

## Day 16: Lesson 1

#### **Answers**

- 1. a. 30 b. 11
- d. 1
- g. 9 h. 16
- j. 84
- m. 2
- p. 9
- s. 13

- c. 22
- e. 43 f. 81
- i. 16
- k. 35 1. 40
- n. 11 o. 12
- q. 11 r. 83
- t. 62

2. a. 25+17=42

Elena bought 42 cookies.

b. 65 + 29 = 94

Jasper spent 94 cents in all.

c. 45+9=54

Jasper counted 54 bison.

# Day 16: Lesson 2

Help the student work through the problem. The answer is that 37-29=8. There were 8 more fish in the lake last summer.

# Day 16: Lesson 3

1. 
$$50 - 26 = 24$$

2. 
$$90 - 73 = 17$$

3.	a.	4 tens 4 ones	regroup	3 tens 14 ones
	b.	2 tens 0 ones	regroup	1 tens 10 ones
	c.	6 tens 5 ones	regroup	5 tens 15 ones
	d.	8 tens 4 ones	regroup	7 tens 14 ones
	e.	3 tens 6 ones	regroup	2 tens 16 ones
	f.	7 tens 2 ones	regroup	6 tens 12 ones
	g.	9 tens 5 ones	regroup	8 tens 15 ones
	h.	5 tens 7 ones	regroup	4 tens 17 ones
А		40 - 10		

4. a. 49

c. 19

b. 4

d. 3

5. a. 49

e. 7 f. 18

b. 9c. 22

q. 57

d. 24

Have the student do the assignment for Day 16 after completing the day's lessons.

## **Day 17**

In today's lessons the student learns to apply strategies to determine sums and differences of two-digit numbers and to apply estimation and mental strategies to addition and subtraction problems.

#### Day 17: Lesson 1

#### **Answers**

- d. 3 g. 10 1. a. 5 j. 100 m. 2 p. 11 s. 13 h. 9 k. 26 b. 22 e. 9 n. 4 q. 12 t. 88 c. 12 f. 96 i. 20 1. 35 o. 17 r. 63
- 2. a. 55-39=16Jasper would pay 16 cents less for the toy on sale.
  - b. 86-79=7Jasper has 7 more marbles than Elena.
  - c. 74-6=68 Elena has 68 cents more than Jasper.

## Day 17: Lesson 2

Review the following rounding rules with the student:

- If the number in the ones place is five or more, round the number to the next higher ten.
- If the number in the ones place is four or less, round the number to the lower ten.

#### **Answers**

- 1. a. 50
  - b. 5
  - c. 32+10+10+10+10+10=82
  - d. 82 1 = 81
  - e. 49 + 32 = 81
- 2. a. 30
  - b. 3
  - c. 59+10+10+10=89
  - d. 89-2=87
  - e. 28 + 59 = 87

3. a. 
$$31+10+10+10+10+2$$
 c.  $71+2=73$ 

c. 
$$71+2=73$$

d. 
$$31+42=73$$

4. a. 
$$52+10+10+7$$

c. 
$$72+7=79$$

d. 
$$52 + 27 = 79$$

5. a. 
$$63+10+10+10+5$$

c. 
$$93+5=98$$

d. 
$$63 + 35 = 98$$

## Day 17: Lesson 3

**Answers** 

b. 
$$46 - 20 = 26$$

c. 
$$26+3=29$$

d. 
$$46-17=29$$

b. 
$$81-50=31$$

c. 
$$31+2=33$$

d. 
$$81 - 48 = 33$$

b. 
$$2+10+10+10+10+5=47$$

c. 
$$85 - 38 = 47$$

a. 
$$47 \xrightarrow{3} 50 \xrightarrow{10} 60 \xrightarrow{10} 70 \xrightarrow{3} 73$$

b. 
$$3+10+10+3=26$$

c. 
$$73 - 47 = 26$$

Have the student do the assignment for Day 17 after completing the day's lessons.

**Day 18** 

This day focuses on estimating addition and subtraction facts with two-digit numbers.

## Day 18: Lesson 1

#### **Answers**

- 1. a. 30, 60
  - b. 30 + 60 = 90
  - c. 27 + 62 is about 90.
- 2. a. 50, 30
  - b. 50 + 30 = 80
  - c. 49 + 31 is about 80.
- 3. a. 20,60
  - b. 20 + 60 = 80
  - c. 18 + 63 is about 80.
- 4. a. 30, 20
  - b. 30 + 20 = 50
  - c. 33 + 19 is about 50.
- 5. a. 80, 20
  - b. 80 + 20 = 100
  - c. 77 + 19 is about 100.
- 6. a. 50, 50
  - b. 50 + 50 = 100
  - c. 51 + 48 is about 100.

# Day 18: Lesson 2

Play the estimation game with the student at the end of the lesson. Have the student discuss the estimation strategies he or she used as the game progresses.

#### **Answers**

- 1. a. 50, 100
  - b. 5
  - c. 97 48 is about 50.

- 2. a. 35, 73
  - ь. 40,70
  - c. 40, 50, 60, 70
  - d. 3
  - e. 73 35 is about 30.
- 3. a. 19,58
  - b. 20,60
  - c. 20, 30, 40, 50, 60
  - d. 4
  - e. 58 19 is about 40.
- 4. a. 37, 66
  - b. 40, 70
  - c. 40, 50, 60, 70
  - d. 3
  - e. 66 37 is about 30.

If the student hasn't done any of the extension activities for Days 14 to 18, have the student do these now.

Have the student do the assignment for Day 18 after completing the day's lessons.

When the student finishes the activities on Day 18, direct him or her to the Student Survey and Student Checklist in the Assignment Booklet. The student may work on these alone, or with your help. Go over the responses and discuss them with the student. Give additional instruction as needed to any of the concepts the student has indicated he or she needs help with.

Ensure that you complete the Home Instructor's Evaluation Checklist and Home Instructor's Feedback forms for Days 10 to 18. The Home Instructor's Feedback is to give any information you think may be helpful for the teacher to know.

Submit Assignment Booklet 3B for marking.

#### **ASSIGNMENT BOOKLET 3B**

Grade Two Mathematics Module 3: Days 10–18

Home Instructor's Comments	and (	Questions	FOR SCHOOL USE ONLY
			Assigned Teacher:
		Home Instructor's Signature	Grading
FOR HOME INSTRUCTOR USE (if label is missing or incorrect) Student File Number:	ere	sel is for	Mathematics:  Neatness:
Grading Scale	Apply Module Label Here	le  Please verify that preprinted label is for correct course and module.	
A – Very Satisfactory B – Satisfactory C – Needs Attention D – Unsatisfactory	App	Address Address Postal Code	Date Assignment Booklet Received:
Teacher's Comments			

**Teacher's Signature** 

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Module 3

# Having Fun Adding and Subtracting

Assignment Booklet 3B







Grade Two Mathematics Module 3: Having Fun Adding and Subtracting Assignment Booklet 3B Learning Technologies Branch

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Students	1	
Teachers	1	
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1. Use the number line to add and subtract.

2 5 10 11 12 13 14 15 16 17 18 19 20 3 4 6 7 8 9

# a. 14-5=

2. Show how to add using tens. An example has been done for you.

10+3

d. 6+9=

e. 9+2=

# 3. Subtract by counting on.

# 4. Subtract by counting back.

# **Assignment Booklet 3B**

1. Draw a picture for each box and add or subtract the numbers. Watch the signs! The first one is done for you.

	Tens	Ones
		5 🛆 🛆 🛆 🛆
+		2 🕰 🛣
7		7
	7	7

a.

Tens	Ones
3	6
	The state of the s
+	3

b.		Tens		One	<del>.</del> 5	
	8		2			
	+		7			OFFICE OR STREET

Te	ns	0	nes
8		7	

d.

Tens	Ones
6	4
	2

e.

Tens	Ones	
1	6	
		Fr. Jan. 19 Champion
	3	4. 4. 4.

2. Add.

3. Subtract.

$$-1$$

1. Add.

2. Subtract.

Solve the problems.

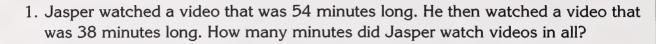
- 3. Mandy has 52 pictures in her album. Her brother has 37 pictures in his album. How many pictures do they have in total?
  - a. Write the number sentence.
  - b. Mandy and her brother have pictures in total.

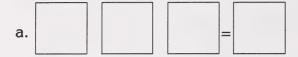
# Day 14

# **Assignment Booklet 3B**

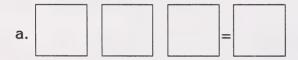
4.		s in her piggybank. That is 26 cents more than Jasper has in w much money does Jasper have in his piggybank?
	a. Write the numb	er sentence.
	b. Jasper has	cents in his piggybank.

Solve these problems. Draw pictures to help you. Write the number sentence, including the addition or subtraction sign, and answer for each one.





2. Elena had 65 cents. She spent 48 cents on candy. How much money did she have left?

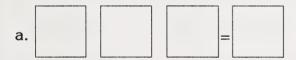


b. Elena had cents left.

3. There were 95 people at the concert. 37 people left early. How many people were left at the concert?

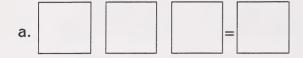


- b. There were people left at the concert.
- 4. Elena's friend Carla has 42 toy cars. Elena has 19 more toy cars than Carla. How many toy cars does Elena have?



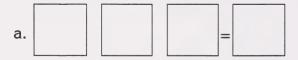
b. Elena has toy cars.

5. There were 18 horses in the stable and 42 horses in the field. How many more horses were in the field?



b. There were more horses in the field.

6. Nadine has 29 green blocks and 57 purple blocks. How many blocks does she have altogether?



b. Nadine has blocks altogether.

# Day 18

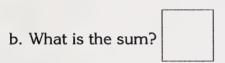
# **Assignment Booklet 3B**

47 + 19

Luca does his arithmetic by imagining that he should add 10, then another 10, and then take one away, as in the following example.

$$47 + 10 + 10 - 1$$

1. a. Explain why Luca must subtract 1.

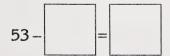


2. Fill in the blanks as Luca does this problem.

For this problem, Luca rounds 28 to the nearest 10.

- a. 28 rounded to the nearest 10 =
- c. Then he would add 2.

b. Next Luca would subtract.



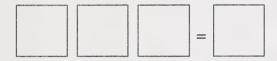
3. Use any method to solve these. Show your work.

# **Assignment Booklet 3B**

4. Solve the problem below and show how you got your answer.

Su Mai skipped rope for 43 minutes. Her friend Joey skipped rope for 39 minutes. How long did they skip altogether?

a. Write the number sentence, including the addition and subtraction sign.



b.

c. Together Su Mai and Joey skipped for minutes.

5. Estimate to get the answer. Show your work.

6. Estimate the answer for this problem.

Millie's mother gave her 85¢ to buy some bread. The bread costs 63¢. About how much money would Millie have left after she bought the bread?

Show your work.

a. Write the number sentence.

b.

c. Millie will have about left.

# **Assignment Booklet 3B**

# **Student Survey**

# Days 10 to 18

Think about what you have learned about addition and subtraction in Days 10 to 18. Then answer these questions.

What did you find easy about Days 10 to 18?
List three things you learned about adding and subtracting in Days 10 to 18.
•••••••••••••••••••••••••••••••••••••••

# **Assignment Booklet 3B**

s there something about adding and subtracting you would like to know more about?	
g	
s there something you still need	d help with?
3,	

18

# **Student Checklist**

# Days 10 to 18

I know how to	Put a check mark beside the things you can do.
add and subtract two-digit numbers in different ways	
use different ways of estimating and doing math in my head to add and subtract	

# **Home Instructor's Evaluation Checklist**

# Days 10 to 18

Specific Outcomes/ Concepts Learned  The student	Has the student mastered the concept (yes or no)?
<ol> <li>applies and explains multiple strategies to determine sums and differences on two-digit numbers, with and without regrouping</li> </ol>	
applies a variety of estimation and mental mathematics strategies to addition and subtraction problems	

# **Assignment Booklet 3B**

Home Instructor's Feedback		